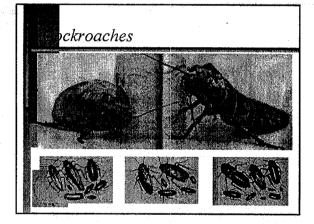
Cockroach allergen standardization preliminary report

Jay E. Slater, MD Laboratory of Immunobiochemistry FDA/CBER/OVRR/DAPP e standardization of new allergens: pact criteria for candidate allergens

Availability of stable, preferably lyophilized material for use as long-term reference extracts.

- Consistency of currently marketed product.

 Widespread use as a diagnostic and/or therapeutic reagent in the U.S.
- Number of manufacturers producing the product.
- Potential use in immunotherapy (higher score) or diagnostics (lower score).
- Public health impact of correct diagnosis and/or adequate treatment.



ny is cockroach allergy important?

Ubiquitous
Difficult to control
Associated with asthma

Several cloned allergens

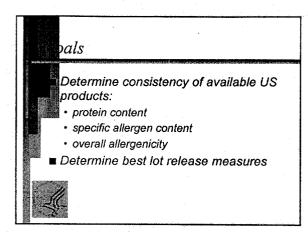
ase I - Laboratory

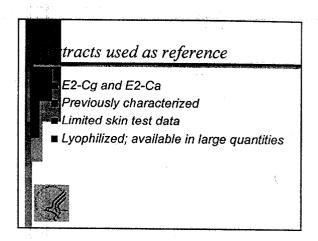
- Develop/adapt methods for allergen determination
- Compare allergen content of different lots
- If commercial products are highly consistent, re-consider impact
- If commercial products are comparable "best" material, re-consider impact

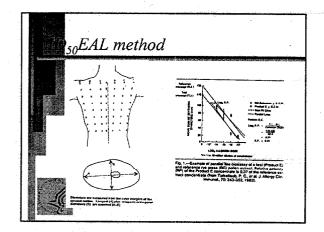
eliminary Studies

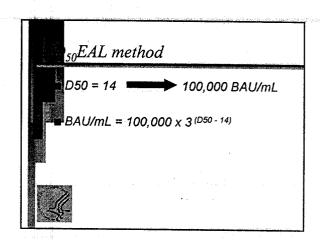
- Obtain multiple lots for study from manufacturers
- Characterize and compare extracts
- Identify target allergens

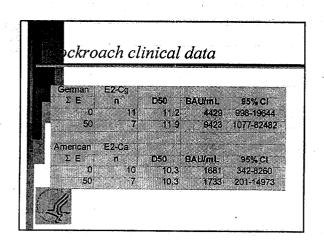


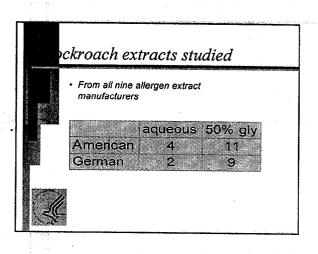


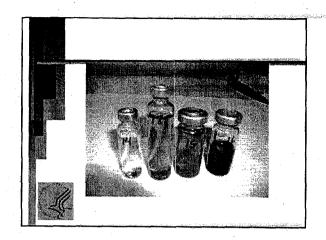


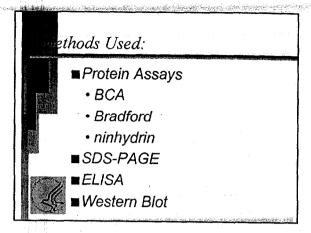


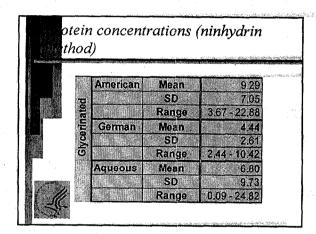








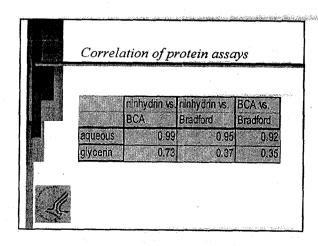


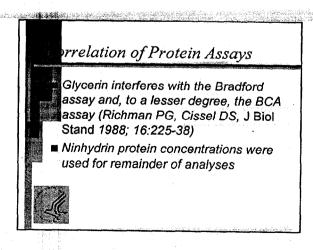


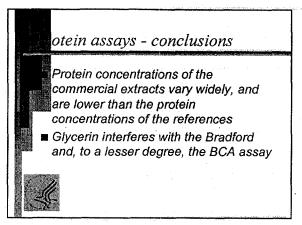
E2-Cg 25 mg/mL

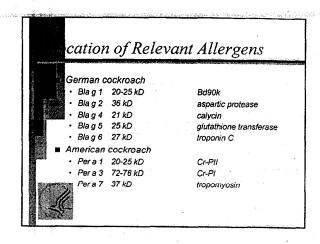
E2-Ca 30 mg/mL

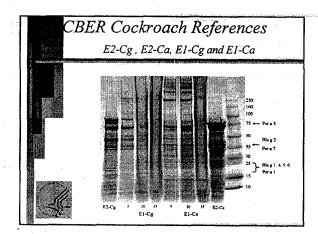
Therefore, we scaled up the allergen levels and relative potencies to the reference protein concentration

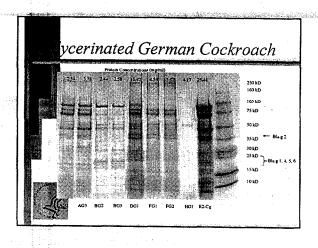


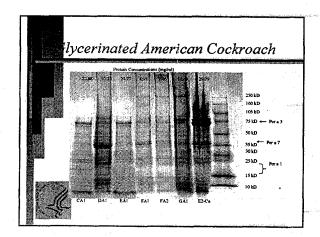












SDS is a detergent - denatures proteins and confers uniform charge density
4+ M urea is a stronger denaturant
• used in addition to SDS in gels

